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Annual status report of the annual inventory of Italy

1. This status report was prepared by the expert review team as part of the initial check of the annual inventory submitted in accordance with decision 15/CMP.1. It reflects the content of the inventory submission of 2014 as originally submitted by the Party.

2. In this report, the following abbreviations are used:

AAU: assigned amount unit
CER: certified emission reduction
CRF: common reporting format
ERU: emission reduction unit
GHG: greenhouse gas
KP-LULUCF: Article 3, paragraphs 3 and 4, activities under the Kyoto Protocol
lCER: long-term certified emission reduction
LULUCF: land use, land-use change and forestry
NIR: national inventory report
RMU: removal unit
SBDT: sectoral background data tables
SEF: standard electronic format
SOPU: solvent and other product use
tCER: temporary certified emission reduction

Notation keys
C: confidential
IE: included elsewhere
NA: not applicable
NE: not estimated
NO: not occurring

Gases
CO_2: carbon dioxide
CH_4: methane
N_2O: nitrous oxide
HFCs: hydrofluorocarbons
PFCs: perfluorocarbons
SF_6: sulphur hexafluoride
NO_X: nitrogen oxides
CO: carbon monoxide
NMVOCs: non-methane volatile organic compounds
SO_2: sulphur dioxide

GE.14-04873 (E)
1404873

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GREENHOUSE GAS INVENTORY SUBMISSION											
General information		*Date of receipt*		*Date of resubmission*		*Comments*					
	NIR	15 April 2014									
	CRF tables[a]	04 April 2014									
	Additional information[b]	15 April 2014				File name: registry annexes.zip					
	CRF provided for years	1990–2012									
	Base year or period[c]	1990	Base year for HFCs, PFCs and SF_6[d]				1990				
	Gases covered	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6	NO_X	CO	NMVOCs	SO_2
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NIR	Description	The organization of the NIR, in general, follows the structure outlined in the updated UNFCCC reporting guidelines[e] on annual inventories following incorporation of the provisions of decision 14/CP.11, elaborated with an annotated outline of the NIR. However, some of the recommended annexes such as annex 2 "Detailed discussion of methodology and data for estimating CO2 emissions from fuel combustion" and annex 5 "Assessment of completeness and (potential) sources and sinks of greenhouse gas emissions and removals excluded for the annual inventory submission" are not provided.									
	Language of NIR	English									
CRF[f]	Missing source category larger than 7 per cent for categories included in Annex A to the Kyoto Protocol	No missing source category larger than 7 per cent has been identified.									

[a] CRF tables are contained in document FCCC/SBSTA/2006/9, annex II.

[b] Additional information can be any information submitted by a Party in conjunction with the NIR or CRF tables.

[c] Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

[d] A Party may select 1990 or 1995 as the base year for the fluorinated gases in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

[e] "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories" (FCCC/SBSTA/2006/9).

[f] A Party has not reported an estimate for an Annex A category that accounted for 7 per cent or more of the Party's aggregate emissions (decision 15/CMP.1, para. 3(b)).

SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7.1					
Reporting of supplementary information		*Date of receipt*	*Date of resubmission*	*Comments*	
	KP-LULUCF information[a]	15 April 2014		NIR, page 270, chapter 10.	
	KP-LULUCF CRF[b]	04 April 2014		CRF provided for years:	2008–2012
	Information on Kyoto units (ERUs, CERs, RMUs and AAUs)[c]	15 April 2014		NIR, page 284, chapter 11.	
	SEF[d] with Kyoto Protocol units	04 April 2014			
	Change in national system[e]	15 April 2014		NIR, page 287, chapter 12.	
	Change in national registry[e]	15 April 2014		NIR, page 288, chapter 13.	
	Minimization of adverse impacts[e]	15 April 2014		NIR, page 292, chapter 14.	

[a] Parties are required to include in their annual submission information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, in accordance with the annex to decision 15/CMP.1, paragraphs 5–9.

[b] Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3. Parties may also elect to report these tables for the base year or 1990.

[c] Parties are required to include in their annual submission information on ERUs, CERs, tCERs, lCERs, AAUs and RMUs, in accordance with the annex to decision 15/CMP.1, section I.E.

[d] SEF for reporting Kyoto Protocol units, as adopted under decision 14/CMP.1 and required by the annex to decision 15/CMP.1, paragraph 11.

[e] The requirements for Parties to report on changes in national systems in accordance with Article 5, paragraph 1, changes in national registries, and the minimization of adverse impacts in accordance with Article 3, paragraph 14, are set out in sections I.F, I.G and I.H, respectively, of the annex to decision 15/CMP.1.

PART I

Provision of information for the latest reported inventory year in the common reporting format: 2012

Tables

	Energy		*Industrial processes*		*SOPU*		*Agriculture*		*LULUCF*		*KP-LULUCF*[a]		*Waste*	
Sectoral report tables	1	✓	2(I)	✓	3	✓	4	✓	5	✓	5(KP)	✓	6	✓
			2(II)	✓										
Sectoral background data tables	1.A(a)	✓	2(I).A–G	✓	3.A–D	✓	4.A	✓	5.A	✓	5(KP-I)A.1.1	✓	6.A	✓
	1.A(b)	✓	2(II).C	✓			4.B(a)	✓	5.B	✓	5(KP-I)A.1.2	✓	6.B	✓
	1.A(c)	✓	2(II).E	✓			4.B(b)	✓	5.C	✓	5(KP-I)A.1.3	✓	6.C	✓
	1.A(d)	✓	2(II).F	✓			4.C	✓	5.D	✓	5(KP-I)A.2	✓		
	1.B.1	✓					4.D	✓	5.E	✓	5(KP-I)A.2.1.	✓		
	1.B.2	✓					4.E	✓	5.F	✓	5(KP-I)B.1.	✓		
	1.C	✓					4.F	✓	5 (I)	✓	5(KP-I)B.2.	✓		
	Bunkers separately	✓							5 (II)	✓	5(KP-I)B.3.	✓		
									5 (III)	✓	5(KP-I)B.4.	✓		
									5 (IV)	✓	5(KP-II)1	✓		
									5 (V)	✓	5(KP-II)2	✓		
											5(KP-II)3	✓		
											5(KP-II)4	✓		
											5(KP-II)5	✓		
											Accounting table	✓		
Summary tables	Summary 1.A	✓	Summary 1.B	✓					Summary 2					✓
Other tables	Summary 3	✓	Table 7 (Key categories)	✓					Table 9(a) (Completeness)					✓
	Table 10 (Trends)	✓							Table 9(b) (Completeness)					
Comments														

[a] Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3.

PART I

Provision of information for the latest reported inventory year in the common reporting format: 2012 (continued)

Totals	*Provided for gases*	*CO_2* ✓	*CH_4* ✓	*N_2O* ✓	*HFCs* ✓	*PFCs* ✓	*SF_6* ✓						
	Provided for years	1990–2012	1990–2012	1990–2012	1990–2012	1990–2012	1990–2012						
CO_2	*Comparison of CO_2 from fuel combustion*	*Reference approach*	*Sectoral approach*	*Difference more than 2 per cent*		*If difference is more than 2 per cent*							
		✓	✓			Explanation provided							
HFCs, PFCs, SF_6	*Disaggregation by species*			*HFCs*		*PFCs*		*SF_6*					
				✓		✓							
	Reporting of actual and/or potential emission estimates in the category consumption of halocarbons and SF_6			Actual	Potential	Actual	Potential	Actual	Potential				
				✓	✓	✓	✓	✓	✓				
Notation keys	*Used in*	*Summary table 1.A*	✓	*Sectoral report tables*	✓	*Sectoral background data tables*	✓						
	Comments												

PART II Provision of common reporting format tables for years reported																				
				Years															*Information gaps relating to reporting*[b]	*Comments*
				Base year[a]	*1990*	*1995*	*2000*	*2005*	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*		
Energy	Sectoral report: table 1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 1.A(a)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(b)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(c)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(d)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.B.1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.B.2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Table 1.C			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Industrial processes	Sectoral reports:		Table 2(I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SBDT	Table 2(I).A–G			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 2(II).C			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 2(II).E			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 2(II).F			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

PART II

Provision of common reporting format tables for years reported (continued)

			Years													
			Base year[a]	*1990*	*1995*	*2000*	*2005*	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*	*Information gaps relating to reporting*[b]	*Comments*
SOPU	Sectoral report: Table 3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Agriculture	Sectoral report: Table 4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 4.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.B(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
		Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

PART II

Provision of common reporting format tables for years reported (continued)

			Years													
			Base year[a]	*1990*	*1995*	*2000*	*2005*	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*	*Information gaps relating to reporting*[b]	*Comments*
LULUCF	Sectoral report: Table 5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 5.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NA and NO are used.
		Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (IV)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–1997. For these years the notation keys NA and NO are used.
		Table 5 (V)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

PART II

Provision of common reporting format tables for years reported (continued)

			Years												Information gaps relating to reporting[b]	Comments
			Base year[a]	1990	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012		
KP-LULUCF	Sectoral report: Table 5 (KP)									✓	✓	✓	✓	✓		
	SBDT	Table 5 (KP-I) A.1.1								✓	✓	✓	✓	✓		
		Table 5 (KP-I)A.1.2								✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
		Table 5 (KP-I) A.1.3								✓	✓	✓	✓	✓		
		Table 5 (KP-I) A.2								✓	✓	✓	✓	✓		
		Table 5 (KP-I) A.2.1								✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
		Table 5 (KP-I) B.1								✓	✓	✓	✓	✓		
		Table 5 (KP-I) B.2								✓	✓	✓	✓	✓		
		Table 5 (KP-I) B.3								✓	✓	✓	✓	✓		
		Table 5 (KP-I) B.4								✓	✓	✓	✓	✓		
		Table 5 (KP-II) 1								✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
		Table 5 (KP-II) 2								✓	✓	✓	✓	✓		
		Table 5 (KP-II) 3								✓	✓	✓	✓	✓		
		Table 5 (KP-II) 4								✓	✓	✓	✓	✓		
		Table 5 (KP-II) 5								✓	✓	✓	✓	✓		
	Accounting table									✓	✓	✓	✓	✓		

PART II

Provision of common reporting format tables for years reported (continued)

			Years													
			Base year[a]	*1990*	*1995*	*2000*	*2005*	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*	*Information gaps relating to reporting*[b]	*Comments*
Waste	Sectoral report: Table 6			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 6.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 6.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 6.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Summary and other tables		Summary 1.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 2 (CO_2 equivalent emissions)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 3 (Methods emission factors)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 7 (Key categories)		✓			✓	✓	✓	✓	✓	✓	✓	✓		
		Table 8(a) (Recalculation – recalculated data)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		Table 8(b) (Recalculation – explanatory information)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
		Table 9(a) (Completeness)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 9(b) (Completeness)														
		Table 10 (Trends)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

[a] Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

[b] This column indicates that reporting gaps (blank cells) have been identified in a given table of the CRF. This was owing to limited use, or lack, of notation keys (NO, NE, NA, IE, C).

PART III Provision of information relating to recalculations						
Table 8(a) (Recalculated data)	✓	Comments				
Recalculation reported for years	1990–2011					
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste
CO_2	✓	✓	✓		✓	✓
CH_4	✓	✓		✓	✓	✓
N_2O	✓	✓		✓	✓	✓
HFCs		✓				
PFCs		✓				
SF_6		✓				
Table 8(b) (Explanatory information)	✓	✓	✓	✓	✓	✓
Percentage difference in aggregate greenhouse gas emission		Base year estimate:[a]	With LULUCF:	1.7%	Without LULUCF:	0.01%
		Latest recalculated year:[b]	With LULUCF:	2.02%	Without LULUCF:	-0.45%

[a] Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

[b] The latest recalculated year is the submission year minus 3.

PART IV Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4				
			Provided	*Observation*
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol		✓	
	Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF[a] and decision 16/CMP.1		✓	
	Information on geographical location of the boundaries of areas that encompass:			
		Units of land subject to activities under Article 3.3	✓	
		Units of land subject to activities under Article 3.3, which would otherwise be included in land subject to elected activities under Article 3.4	✓	
		Land subject to elected activities under Article 3.4	✓	
	Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation		✓	
	Information on GHG emissions/removals resulting from activities under Article 3.3 and 3.4, for all geographical locations reported in the current and previous years since the beginning of the commitment period or the onset of the activity, whichever comes later		✓	
	Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for		✓	
	Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:			
		Elevated CO_2 concentrations above pre-industrial levels	✓	
		Indirect nitrogen deposition	✓	
		The dynamic effects of age structure resulting from activities prior to 1 January 1990	✓	

[a] The Intergovernmental Panel on Climate Change Good Practice Guidance for Land Use, Land-Use Change and Forestry.

PART IV Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4 (continued)				
			Provided	*Observation*
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	Specific information to be reported for Article 3.3 activities:			
		Activities under Article 3.3 that began on or after 1 January 1990 and before 31 December of the last year of the commitment period, and are directly human induced	✓	
		How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	✓	
		Emissions/removals from lands harvested during the first commitment period following afforestation and reforestation on these units of land since 1990	✓	
	Specific information to be reported for Article 3.4 activities:			
		Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓	
		Cropland management, grazing land management, revegetation: emissions/removals reported for each year of the commitment period and for the base year for each of the elected activities on the geographical locations reported		Italy elected only forest management under Article 3, paragraph 4
		Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		Information required in paragraph 9(c) of annex to 15/CMP.1 is not included in the submission
		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	✓	